

Recombinant Human UGT1A4 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. UGT1A4-6011H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	UGT1A4 MS Standard C13 and N15-labeled recombinant protein (NP_009051) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a UDP-glucuronosyltransferase, an enzyme of the glucuronidation pathway that transforms small lipophilic molecules, such as steroids, bilirubin, hormones, and drugs, into water-soluble, excretable metabolites. This gene is part of a complex locus that encodes several UDP-glucuronosyltransferases. The locus includes thirteen unique alternate first exons followed by four common exons. Four of the alternate first exons are considered pseudogenes. Each of the remaining nine 5' exons may be spliced to the four common exons, resulting in nine proteins with different N-termini and identical C-termini. Each first exon encodes the substrate binding site, and is regulated by its own promoter. This enzyme has some glucuronidase activity towards bilirubin, although is more active on amines, steroids, and sapogenins.
Molecular Mass	60.03 kDa
AA Sequence	MARGLQVPLPRLATGLLLLLSVQPWAESGKVLVVPTDGSPWLSMREALRELHARGH QAVVLTPEVNMHIKEEKFFTLTAYAVPWTQKEFDRVTLGYTQGFFETEHLKRYRS

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MAIMNNVSLALHRCCVELLHNEALIRHLNATSFDDVLTDPVNLGAVLAKYLSIPAVF
FWRYIPCDLDFKGTQCPNPSSYIPKLLTTNSDHMTFLQRVKNMLYPLALSYICHTFSA
PYASLASELFQREVSVVDLVSYASVWLFRGDFVMDYPRPIMPNMVFIGGINCANGK
PLSQEFEAYINASGEHGIVVFSLGSVMSEIPEKKAMAIADALGKIPQTVLWRYTGTRP
SNLANNTILVKWLPQNDLLGHPMTRAFITHAGSHGVYESICNGVPMVMMPLFGDQM
DNAKRMETKGAGVTNLVLEMTSEDLENALKAVINDKSYKENIMRLSSLHKDRPVEPL
DLAVFWVEFVMRHKGAPHLRPAAHDLTWYQYHSLDVIGFLLAVVLTVAFITFKCCAY
GYRKCLGKKGRVKKAHKSKTHTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name UGT1A4 UDP glucuronosyltransferase family 1 member A4 [Homo sapiens (human)]

Official Symbol UGT1A4

Synonyms UGT1A4; UDP glucuronosyltransferase 1 family, polypeptide A4; UDP glycosyltransferase 1 family, polypeptide A4; UDP-glucuronosyltransferase 1-4; HUG BR2; UGT1D; UDP-glucuronosyltransferase 1-D; UDP-glucuronosyltransferase 1A4; bilirubin-specific UDPGT isozyme 2; bilirubin UDP-glucuronosyltransferase isozyme

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2; UDPGT; UGT-1D; UGT1.4; HUG-BR2; UGT1-04; UDPGT 1-4;

Gene ID [54657](#)

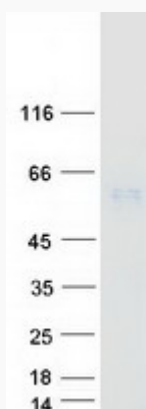
mRNA Refseq [NM_007120](#)

Protein Refseq [NP_009051](#)

MIM [606429](#)

UniProt ID [P22310](#)

SDS-PAGE



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